

Title (en)
SELF-MODE-LOCKED SEMICONDUCTOR LASER

Title (de)
SELBSTMODENVERRIEGELTER HALBLEITERLASER

Title (fr)
LASER A SEMI-CONDUCTEUR EN MODE AUTO-BLOQUE

Publication
EP 1946414 A1 20080723 (EN)

Application
EP 06826390 A 20061020

Priority
• US 2006041124 W 20061020
• US 26253605 A 20051028

Abstract (en)
[origin: US2007098031A1] An interband self-mode-locked (SML) semiconductor laser utilizes an active waveguide structure that includes an active waveguide section and one or more passive waveguide sections that together enhances self-mode-locking. The SML laser operation is based on enhanced Kerr lens mode-locking by vertically optically combining the active section with one or more passive waveguide sections.

IPC 8 full level
H01S 5/065 (2006.01)

CPC (source: EP US)
B82Y 20/00 (2013.01 - EP US); **H01S 5/3434** (2013.01 - EP US); **H01S 5/0657** (2013.01 - EP US); **H01S 5/2224** (2013.01 - EP US); **H01S 5/2227** (2013.01 - EP US); **H01S 5/2275** (2013.01 - EP US); **H01S 5/34306** (2013.01 - EP US)

Citation (search report)
See references of WO 2007053336A1

Cited by
GB2493583A; GB2493583B; US9620932B2; US9461434B2

Designated contracting state (EPC)
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US 2007098031 A1 20070503; **US 7362787 B2 20080422**; CN 101351938 A 20090121; EP 1946414 A1 20080723; JP 2009514226 A 20090402; WO 2007053336 A1 20070510

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US 26253605 A 20051028; CN 200680040250 A 20061020; EP 06826390 A 20061020; JP 2008537818 A 20061020; US 2006041124 W 20061020